

ABSTRACT

An annular plug portion (21) projects from a clamp
pallet (2). An annular shuttle member (23) is supported by the
5 plug portion (21) to be movable in the vertical direction. A
work pallet (3) is provided with a tapered inner peripheral
surface (12) which makes an engagement with a tapered outer
peripheral surface (28) of the shuttle member (23). A
transmission member (29) is inserted into an upper portion of
10 a cylindrical hole (21a) of the plug portion (21), while a rod
(31) is inserted into a lower portion of the cylindrical hole
(21a). When the rod (31) is driven downward for clamping, an
output portion (36) of the rod (31) moves the work pallet (3)
downward through engaging balls (34) to form a transmission
15 gap (G) between a pushing portion (31a) of the upper end of
the rod (31) and a pressure receiving portion (29b) of the
transmission member (29). When the rod (31) is driven upwards
for unclamping, the pushing portion (31a) pushes upwards the
work pallet (3) through the transmission member (29).

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